

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210552

Luminaire Tested: **ARCH3-160-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14963 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 161
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

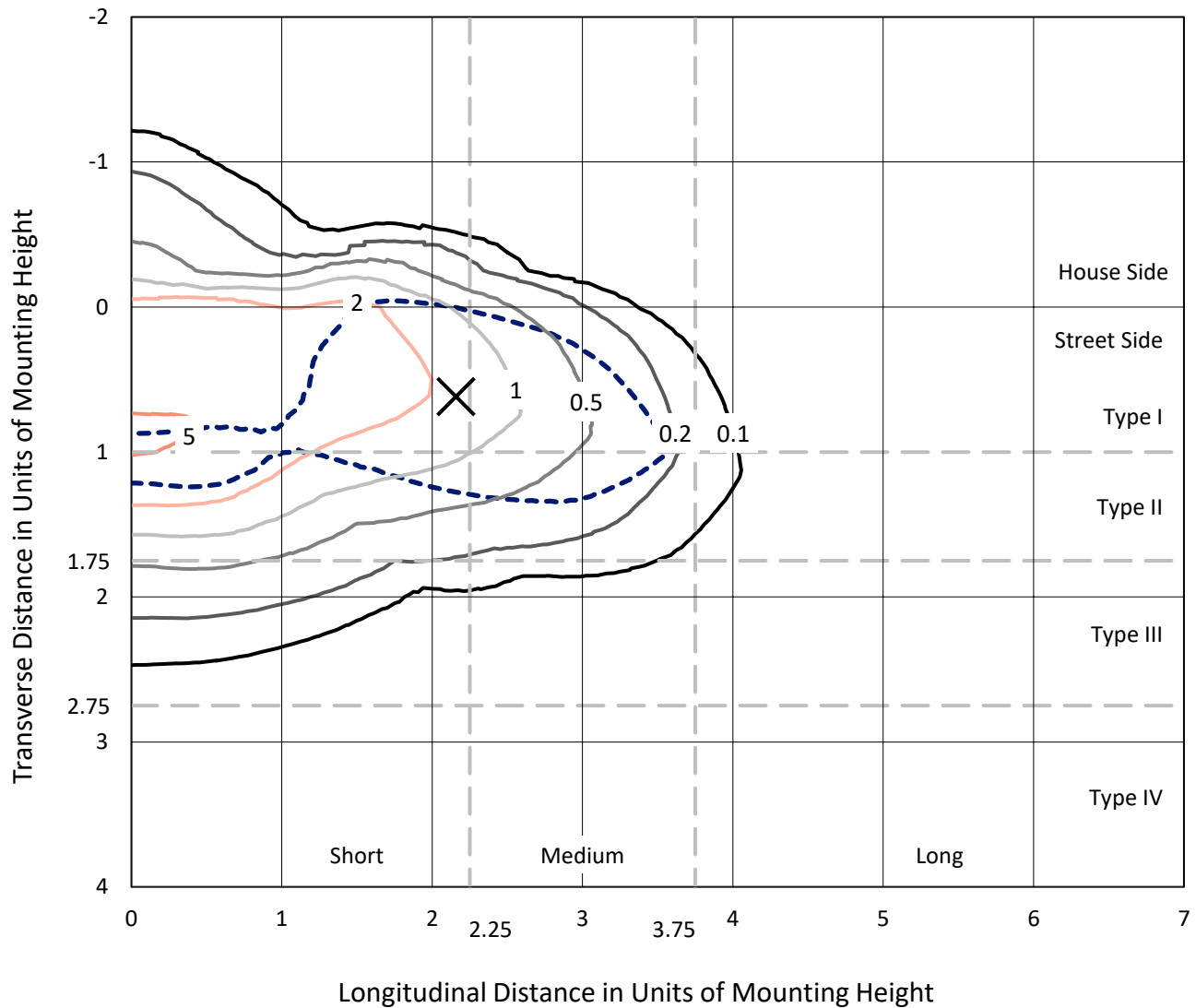


REPORT NUMBER: P1210552

CATALOG NUMBER: ARCH3-160-727-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

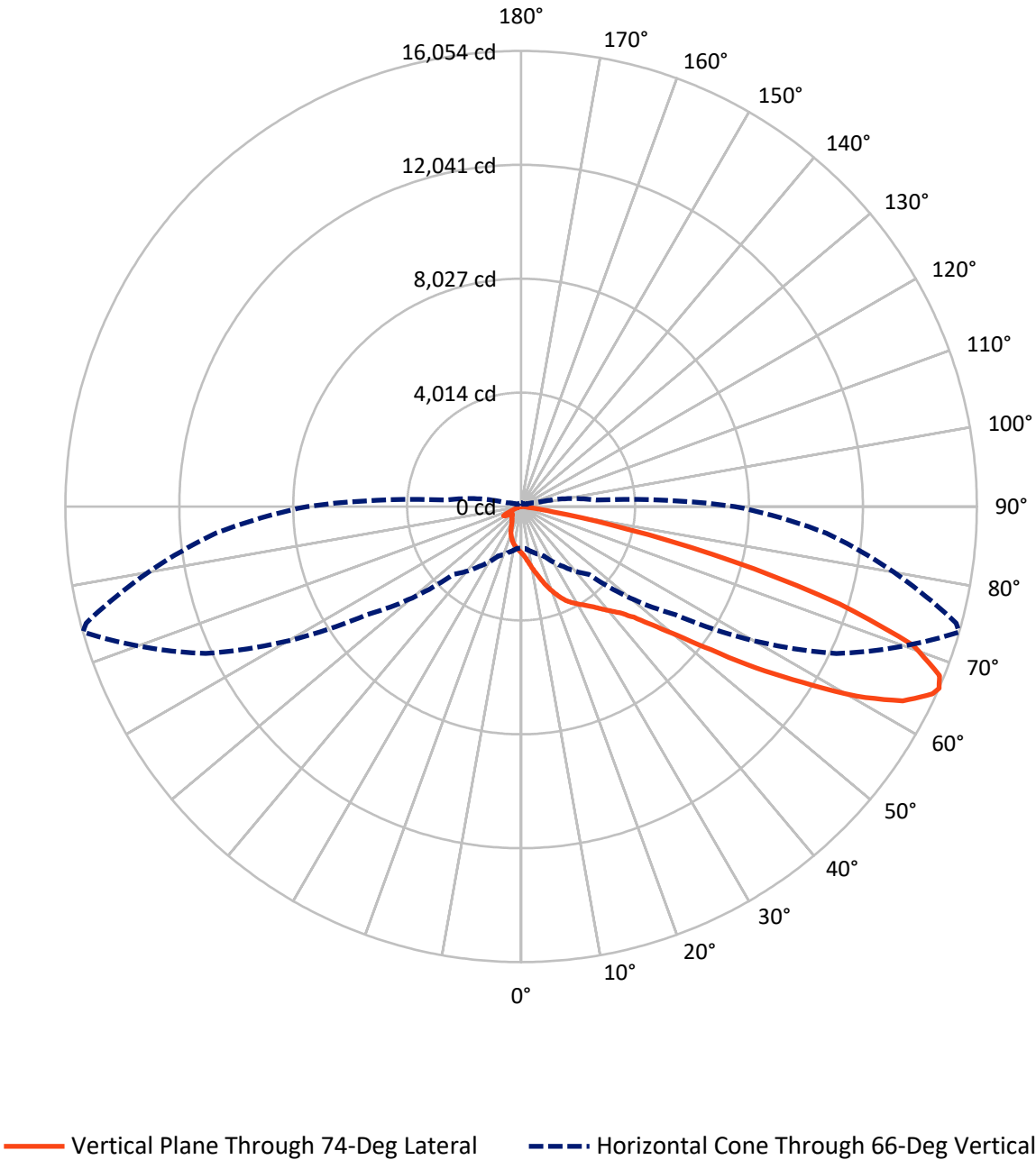
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

REPORT NUMBER: P1210552
CATALOG NUMBER: ARCH3-160-727-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210552

CATALOG NUMBER: ARCH3-160-727-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.8	0.0	1466.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13496.2	0.0	13496.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	14963.0	0.0	14963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	1.1
10°-20°	511.1	3.4
20°-30°	975.4	6.5
30°-40°	1709.6	11.4
40°-50°	2931.5	19.6
50°-60°	3812.7	25.5
60°-70°	3451.4	23.1
70°-80°	1331.7	8.9
80°-90°	80.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14963.0	100.0
0°-180°	14963.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210552

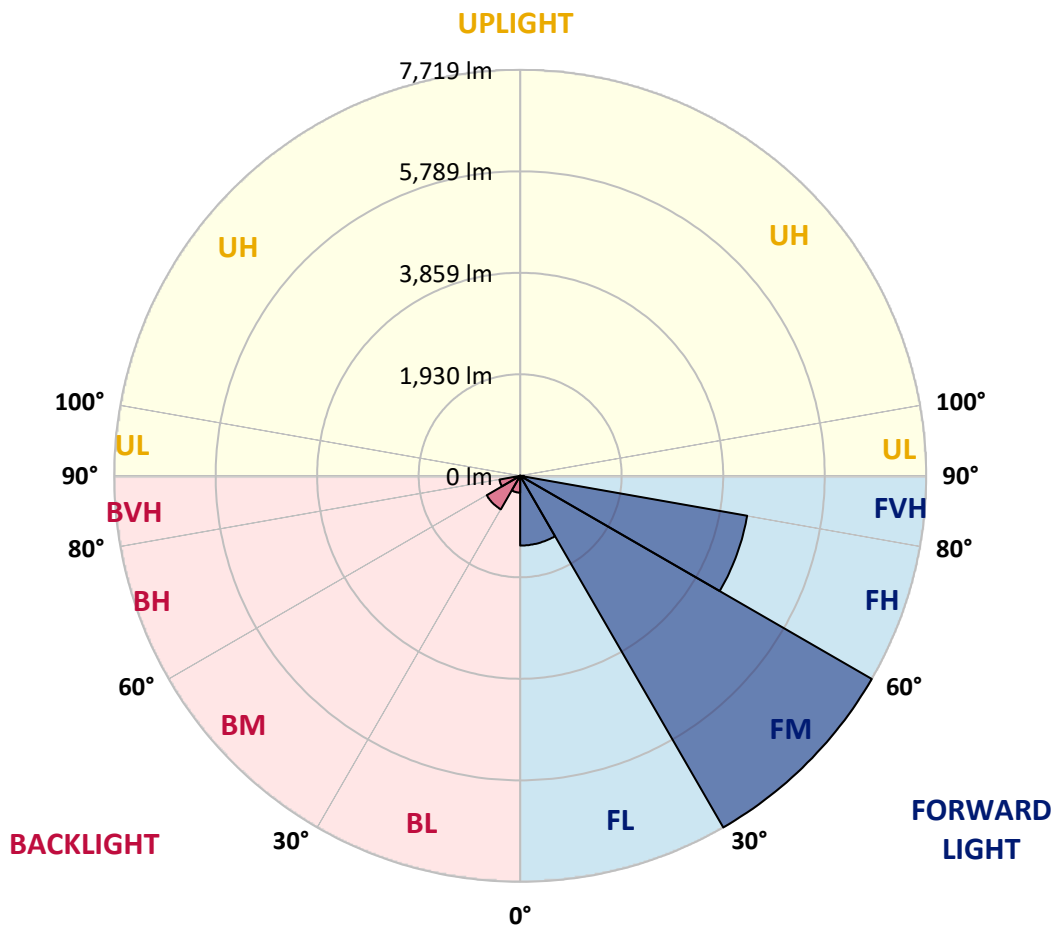
CATALOG NUMBER: ARCH3-160-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.9	8.9			
FM	(30°-60°)	7718.7	51.6			
FH	(60°-80°)	4382.1	29.3			G2/5000
FVH	(80°-90°)	69.4	0.5			G1/100
BL	(0°-30°)	320.0	2.1	B1/500		
BM	(30°-60°)	735.1	4.9	B1/1000		
BH	(60°-80°)	401.0	2.7	B1/500		G1/500
BVH	(80°-90°)	10.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P1210552

CATALOG NUMBER: ARCH3-160-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3
2.5°	1961.1	1945.0	1915.4	1912.7	1888.6	1859.0	1808.0	1754.2	1716.6	1711.2	1665.6
5°	2347.9	2339.9	2310.3	2291.5	2245.8	2176.0	2057.8	1939.6	1840.2	1829.4	1727.4
7.5°	2450.0	2455.4	2460.8	2479.6	2463.4	2431.2	2342.6	2176.0	2020.2	1996.0	1818.7
10°	2466.1	2460.8	2460.8	2484.9	2530.6	2576.3	2565.5	2423.1	2221.7	2192.1	1945.0
12.5°	2640.7	2648.8	2630.0	2619.3	2611.2	2635.4	2716.0	2654.2	2433.9	2409.7	2098.1
15°	2866.4	2863.7	2836.9	2836.9	2812.7	2772.4	2823.4	2869.1	2689.1	2659.6	2272.7
17.5°	3030.3	3041.0	3038.3	3054.5	3046.4	2992.7	2965.8	3059.8	2952.4	2914.8	2471.5
20°	3161.9	3191.5	3202.2	3253.2	3277.4	3239.8	3170.0	3229.1	3204.9	3170.0	2673.0
22.5°	3301.6	3325.8	3344.6	3433.2	3500.4	3492.3	3403.7	3390.3	3449.4	3417.1	2871.8
25°	3441.3	3452.0	3508.5	3615.9	3723.4	3750.2	3658.9	3554.1	3669.6	3640.1	3049.1
27.5°	3594.4	3599.8	3667.0	3798.6	3949.0	4005.4	3932.9	3739.5	3838.9	3838.9	3210.3
30°	3873.8	3927.5	3954.4	4072.6	4204.2	4282.1	4196.2	3935.6	3989.3	4013.5	3379.5
32.5°	4475.6	4483.6	4475.6	4526.6	4553.5	4599.1	4499.7	4155.9	4142.5	4169.3	3546.1
35°	5394.3	5362.1	5276.1	5200.9	5045.1	4959.1	4830.2	4438.0	4330.5	4368.1	3709.9
37.5°	6509.2	6463.5	6267.4	6036.4	5703.3	5359.4	5198.2	4781.8	4569.6	4617.9	3887.2
40°	7573.0	7543.5	7309.7	7025.0	6455.5	5867.1	5526.0	5072.0	4835.5	4854.4	4067.2
42.5°	8448.8	8443.4	8247.3	7949.1	7218.4	6415.2	5912.8	5356.7	5114.9	5144.5	4255.3
45°	9112.3	9061.3	8916.2	8701.3	7957.2	6984.7	6380.2	5789.2	5563.6	5598.5	4537.4
47.5°	9112.3	9120.4	9214.4	9192.9	8473.0	7519.3	6890.7	6334.6	6227.1	6259.3	5002.1
50°	8370.9	8446.1	8865.2	9217.1	8741.6	7935.7	7441.4	7016.9	7127.1	7175.4	5813.4
52.5°	6904.1	7030.4	7758.4	8561.6	8542.8	8145.2	8010.9	7884.6	8378.9	8464.9	7011.5
55°	5246.6	5329.8	6278.2	7333.9	7677.8	7973.3	8507.9	8986.1	10036.4	10017.6	8228.5
57.5°	3919.5	3997.4	4814.1	5985.3	6439.3	7229.1	8763.1	10246.0	11680.5	11753.1	9370.2
60°	2882.5	2941.6	3637.4	4599.1	5254.6	6090.1	8661.0	11487.1	13574.5	13491.2	10377.6
62.5°	2133.0	2165.3	2667.6	3293.5	4163.9	4961.8	8019.0	12336.0	15086.9	14917.7	10939.1
65°	1649.5	1660.2	1920.8	2253.9	3027.6	3857.7	7062.6	12465.0	15922.4	15742.4	10928.3
66°	1469.5	1477.5	1668.3	1926.2	2576.3	3376.8	6643.5	12258.1	16054.0	15863.3	10794.0
67.5°	1233.1	1227.7	1340.5	1509.8	1934.2	2605.8	5899.4	11653.7	15898.2	15801.5	10364.2
70°	913.4	916.1	972.5	1012.8	1131.0	1442.6	4260.7	10109.0	14651.7	14646.3	9184.9
72.5°	677.0	685.0	728.0	736.1	706.5	781.7	2455.4	8040.4	11720.8	11723.5	6866.5
75°	507.7	521.2	534.6	540.0	513.1	494.3	1109.5	5410.4	7710.0	7653.6	3887.2
77.5°	386.8	392.2	403.0	394.9	389.5	341.2	462.1	2638.1	3806.7	3468.2	1259.9
80°	282.1	282.1	292.8	282.1	279.4	244.5	252.5	846.2	1117.5	929.5	271.3
82.5°	177.3	174.6	182.7	180.0	174.6	155.8	147.8	236.4	257.9	231.0	131.6
85°	99.4	96.7	94.0	91.3	83.3	69.8	80.6	88.7	118.2	120.9	94.0
87.5°	34.9	34.9	32.2	29.6	24.2	24.2	29.6	29.6	43.0	43.0	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210552

CATALOG NUMBER: ARCH3-160-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3	1633.3
2.5°	1644.1	1614.5	1571.6	1515.1	1474.8	1434.5	1391.6	1367.4	1332.5	1324.4	1335.1
5°	1673.6	1619.9	1512.5	1394.2	1292.2	1200.8	1114.9	1063.8	1012.8	994.0	1002.0
7.5°	1735.4	1644.1	1461.4	1270.7	1101.4	964.4	862.3	803.2	757.6	738.8	744.1
10°	1826.8	1687.1	1413.1	1131.0	913.4	768.3	682.3	644.7	617.9	607.1	609.8
12.5°	1936.9	1748.9	1351.3	991.3	752.2	625.9	585.6	577.6	572.2	566.8	569.5
15°	2060.5	1802.6	1278.7	854.3	625.9	556.1	542.7	540.0	537.3	537.3	537.3
17.5°	2189.4	1850.9	1198.1	725.3	545.3	513.1	505.0	505.0	505.0	507.7	507.7
20°	2310.3	1888.6	1104.1	609.8	499.7	472.8	467.4	467.4	470.1	472.8	472.8
22.5°	2428.5	1904.7	994.0	529.2	462.1	437.9	429.8	429.8	429.8	432.5	432.5
25°	2530.6	1904.7	883.8	478.2	429.8	405.6	394.9	392.2	394.9	394.9	394.9
27.5°	2616.6	1896.6	776.4	443.3	397.6	373.4	362.7	360.0	365.4	368.0	368.0
30°	2707.9	1885.9	690.4	411.0	370.7	346.5	335.8	335.8	343.9	354.6	354.6
32.5°	2796.6	1893.9	623.2	384.2	343.9	325.1	314.3	317.0	333.1	349.2	349.2
35°	2890.6	1910.0	583.0	365.4	325.1	306.3	298.2	306.3	322.4	338.5	338.5
37.5°	2984.6	1928.8	558.8	349.2	308.9	290.1	284.8	295.5	314.3	330.4	333.1
40°	3084.0	1945.0	531.9	333.1	298.2	276.7	274.0	284.8	308.9	325.1	327.7
42.5°	3207.6	1977.2	499.7	319.7	287.4	260.6	263.3	271.3	295.5	319.7	322.4
45°	3449.4	2079.3	467.4	306.3	274.0	252.5	247.2	252.5	279.4	306.3	311.6
47.5°	3903.4	2310.3	432.5	292.8	260.6	247.2	225.7	231.0	255.2	284.8	287.4
50°	4773.8	2801.9	413.7	279.4	249.8	228.3	204.2	204.2	223.0	249.8	249.8
52.5°	6130.4	3683.1	424.5	268.6	236.4	209.5	185.4	182.7	193.4	212.2	212.2
55°	7594.5	4650.2	464.7	257.9	220.3	198.8	171.9	158.5	166.6	177.3	177.3
57.5°	8755.0	5136.4	574.9	252.5	201.5	190.7	155.8	137.0	145.1	155.8	155.8
60°	9265.4	4851.7	698.5	257.9	188.0	177.3	139.7	120.9	134.3	145.1	147.8
62.5°	8851.7	3994.7	749.5	244.5	169.2	158.5	137.0	112.8	128.9	137.0	139.7
65°	7957.2	3035.6	585.6	212.2	155.8	137.0	123.6	107.5	120.9	128.9	128.9
66°	7532.7	2646.1	499.7	196.1	150.4	128.9	118.2	107.5	118.2	123.6	126.3
67.5°	6874.5	2087.3	370.7	171.9	139.7	118.2	110.1	102.1	112.8	118.2	118.2
70°	5375.5	1243.8	223.0	134.3	120.9	104.8	99.4	94.0	102.1	104.8	104.8
72.5°	3366.1	591.0	142.4	99.4	102.1	99.4	83.3	88.7	91.3	94.0	94.0
75°	1630.7	233.7	96.7	72.5	83.3	94.0	67.2	77.9	80.6	86.0	83.3
77.5°	454.0	112.8	61.8	53.7	72.5	72.5	51.0	61.8	72.5	91.3	83.3
80°	131.6	72.5	40.3	40.3	51.0	51.0	34.9	43.0	48.4	53.7	56.4
82.5°	91.3	48.4	26.9	29.6	29.6	32.2	21.5	21.5	26.9	26.9	29.6
85°	72.5	21.5	16.1	18.8	13.4	16.1	10.7	10.7	13.4	10.7	10.7
87.5°	29.6	10.7	10.7	10.7	8.1	8.1	5.4	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)